



PROJECT NOTE

Site Name: Blades Groundwater Site
City, County, State: Blades, Sussex County, Delaware

Subject: Peninsula Plating Removal Logbook Notes

Date: July 3, 2019

Prepared By:

Ex. 4 CBI

The attached logbook notes were taken throughout the EPA Removal Action conducted at Peninsula Plating in 1995 conducted under direction of EPA OSC Steuteville.

ED_005024_00000515-00002

6c

Peninsula P
R+ S,

East 7th
Blades,

Site contact

PES : 16

TDD #

Stco

215 91

1800 91

Call Ed
604 747 [redacted]
Ex. 6 Personal Privacy (PP)

Call lady
he's on his way.
Peninsula Hunting, Inc.
Rt 5, Box C
East 7th Street
Blawdon, Sussex Co DE 19973.

Site contact - John Mohrman, Jr.
DE DNREC
(302) 739-3694
(800) 662-8802 (2nd line)

PCS: 1615, 1625

TDD #

Stcoterville:
215 913 [redacted]
1800 919 [redacted]
Ex. 6 Personal Privacy (PP)

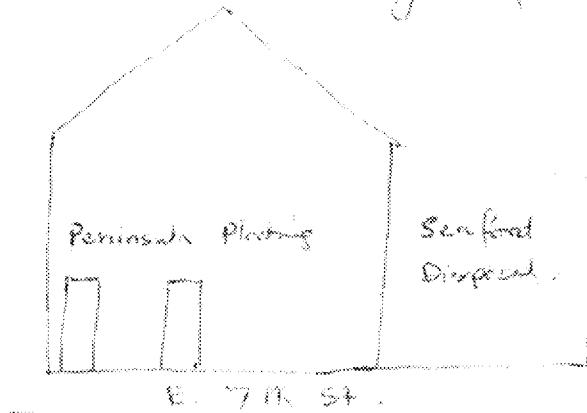
mobile
Beeper
Page 4 of 64

August 4, 1994, Friday

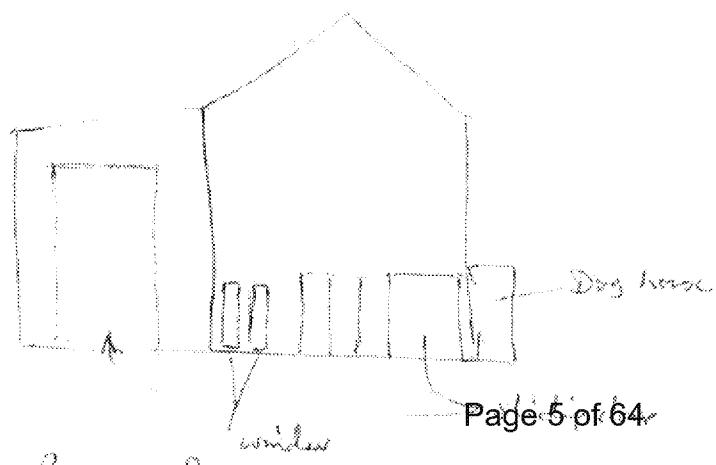
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0830

The Director arrived on site and met with DE SOURCE Richard Jefferson, (Environet?) He said that Jean Mohrmann is technical in charge of the site. Mr. Jefferson said that the quantity of material in the list supplied by CSC Schuetterville was their best estimates. 1st page is for open racks in the plating shops and page 2 is for drums stored inside the rear part of the building. The building has two halves. The right half & leading from 7th st. is rented by Sanford Disposal.



Front of building



Page 5 of 64

According the DNREC estimates, the
vats has a total of

1397 gallon of acids.

311 galls of alkaline caustic.

25 gals of Zinc Cyanide.

and in drums;

345 gals of acids (10 drums)

9 gals of Caustic

400 gals of misc including (9 drums)

+ 165 gals of Zinc cyanide.

The Zinc Cyanide is in 3-55 gal drums.

The materials include

Nickel Sulphate,

Sulfuric Acid

Chromic Acid,

Nickel Chloride,

Black Magic (contains NaOH)

K.L. Magic Solid

Zinc Cyanide.

Cadmium Fluoborate.

Acksalt # 6

Ardox

Mitigene

Windex

Hexavalent Chrome.

Copper Sulfate

Nickel Sulplate etc.

The first floor of the building has
only few pipelines mostly as vent
and a one small room there is
a plastic jar containing approx 5 gals
of yellowish liquid.

The facility stops
April 95 and DN.
approx 30 days a
used to do brass,
plating. mostly 7
said to DNREC
do any Zinc pla
the solution in dr
rebales.

0930

VAT

Ex. 4 CBI

1000

OSC Staunton on
DNREC, Jefferson

Sara Morris sold
who & could not ful
obligation and with
it back for Sara Mor
owns the business in
(Hgtf). One person
facility was work
Laurel, DE. DNE
police.

No leaking drums.

1020

Bill Hill, chief of

State working on a

Other plating shop in
the material in the

DNREC did not se
dead of the fire

1045

Earl Schaffinich,

There was a fire on
He will provide a c
It was about 120.

REC estimates, the
of
Mons of acids.
lls of alkaline lauric.
ls of Zinc Cyanide.

g acids (10 drums)
? cyanide.
? misc including (9 drums)
ls of zinc cyanide.
? in 3-55 gal drums.

include
phak,
acid
acid,
loride,
sic (contains MnO₂)
is solid
ide.
Fluoroborate,
+ 6

Chrom,
plate
eplate etc.
The building has
lives mostly as waste
it room there is
containing approx 5 gals
nd.

The facility stopped operation in about April 95 and DNREC was involved approx 60 days ago. The facility used to do brass, copper and chrome plating, mostly. The owner of the business said to DNREC said that he did not do any zinc plating on site. He bought the solution in drums in the back for rebates.

0930 TAT [REDACTED] on site
1960 CSC Staunton on site. Talks with the DNREC. Jefferson talks about ownership Serra Morris sold to Harold Wingate, who could not fulfill the mortgage obligation and Wilmington trust against it back to Serra Morris. John Donoway (50%) owns the business with 2 other persons (49%). One person who worked in the facility now works in Bob's Speed Shop, Laurel, DE. DNREC met with local police.
+ No leaking drums.
1020 Bill Hill, chief of Enfpoint Section on site.
+ State working on a imminent hazard order.
+ Other plating shop in the city opined that the material in the vats are not useable.
+ DNREC did not see any copy of a Deed of the property.
1045 Earl Bichaffinch, local Fire Chief on site.
+ There was a fire on site last month.
+ He will provide a copy of the fire report.
It was about 1200 midnight.

- » Dave Ruff is the Building Inspector for Bladensburg.
 - » In Earl's opinion, the building is unstable and leans in one direction.
 - » He thinks that there is a fire threat.
 - » If there is a fire, the local fire Co is not equipped to handle the chemical fire.
- 1055 8 TBT started perimeter reconnaissance.
No significant reading above background.
- » The fire chief said that
 - ① he found children playing around the building and with matches.
 - ② The other plating shop (PRECINO PLATING) said that Mr. Donoway did not do any plating job in last 6 months.
 - » Chemicals in the building were not registered pursuant to SARA Title III.
 - » The business changed hand 3 times since it started in 1992.
 - » The windows can be opened from outside.
 - » The site is situated in an industrial setting.
 - » Drugs were involved during the time the facility was in operation.
 - » Private parties visited yesterday to get their parts back.
 - » Before 1992, the building was used as a warehouse.
- 1100 Paul Vickman, Local Police chief on site.
- » There is a history of theft and vandalism on site.
- » The owner used on orders. He did few orders. 5 con be far.
- 1105 Ken East, Neighbors on site. He said the site includes other buildings Wingate approx 11. Frank Taylor of the power of attorney for handling the property (1073)
- » Wilmington Trust Co tenants. But Don is in the list.
- » WIK Associates is the Wilmington trust all waste in the car.
 - » DNREC said that discharge permit for been concreting by Richards, Layton & Attorney for Wilmington.
 - » Frederick L. C. Hill
- 1115 TBT performed air, dragon tube. There of presence of very vapor, which is only Min few sit up in TBT prepare collect Harcat.
- 1130 OSC told that he from Wilmington Trust
- 1150 OSC told that he from Wilmington Trust

is the Building Inspector for
region, the building is
lean in one direction.
There is a fire threat.
Now, the local fire co
is to handle the

seminar re concrete
readings above background.
Said that
iron playing around
and with matches.

ng shop (PRECINO PREMIS)
Donoway did not do
in last 6 months.
building were not
subject to SART Title II
hanged had 3 times
id in 1992.

be opened from outside
which is an industrial

solved during the time the
operation.

visited yesterday to
bulk.

the building was used

local Police Chief an
ity of Huff and
abe.

"The owner used to take 50% advance
on orders. He did not deliver quite a
few orders. 5 cars has been registered
so far.

1105

Ex. 6 Personal Privacy (PPP)

Nephew of Sarah Morris on
site. He said that the property (which
includes other buildings on the lot) was sold
to Wingate approx 10 yrs back.

"Frank Taylor of Wilmington Trust has
the power of attorney for Sara Morris
for handling the property (1802 - 292-7307
& 1073)

"Wilmington Trust collects rents from all
tenants. But Donoway's name is not
in the list.

"WIK Associates submitted a cost estimate
to Wilmington Trust for disposal of
all waste in the complex.

"DNREC Said That the facility had a
discharge permit from the city, which have
been concreted by them yesterday.

"Richards, Langton & Finger works as an
Attorneys for Wilmington Trust (302) 651-7305.
Frederick L. Co Hall handles the case.

1115 TBT performed air monitoring with cyanide
Drago tube. There was a very indication
of presence of very very little cyanide
vapor, which is only a trace amount.

1130 Min Fan set up in plating area Z-37.
TBT prepares collection of samples for
Harcal.

1150 OSC said that he got access permission
from Wilmington Trust to collect samples

- for analysis.
- 1200 TAT completed collection of 7 samples for Harcat #3 vats and 4 drums. (RM)
- 1250 TAT Sitedar called TAT office and updated site situation to Group Leader Murphy.
- 1320 Harcat complete - TAT notified OSC of the results (listed on page)
- 1415 OSC consulted the EPA Manager and discussed the Superfund Emergency Action. They concurred w/ the OSC activated DOOK. At the present time a 24-hr guard will be posted on site and all access to the building will be secured.
- 1445 OSC called ERCS and tasked them to get a guard service for the site. If no guard can be arranged soonish, DNREC will arrange somebody for tonight.
- 1510 OSC decided to collect 6 samples for lab analysis. 4 from vats and 2 from the drums.
- 1515 Mini Ron Leader 2.28
School within 200 yds.
Residence ~ 150 yds.
Nathrop House within $\frac{1}{4}$ mile
- 1605 TAT completed collection of 6 samples and took pictures of the vats and the drums sampled.
- 1640 The Fire chief informed that two City drinking water wells are just outside the property towards the rear side of the lots. (RMK)

1645 EPA, DNREC & TAT members to the site.
Lab notes:
Harcat samples were from VAT and Drums. Listed Hydrogen Peroxide results for HAC follows:

VAT K -

- clear liquid
- pH 7
- Oxidizer - N
- peroxide - N
- cyanide - N

VAT I -

- clear, greenish
- pH - 14
- Oxidizer - N
- cyanide - Detergent

VAT A -

- clear blue liquid
- pH - 0
- oxidizer - POS
- peroxide - Neg.

VAT C -

- cloudy, white ly
- pH - 11
- Oxidizer - Neg.

collection of 7 samples for
to add to Doms.

Used the office and
bath to Grampians

• VAT modified OSC
(locked on paper)

The EPA Management
concerned with the OSC
e. At the present time
will be posted on
access to the building

ies and tasked them to
arrive to site. To
be arranged tonite, DNREC
me body for tonite.
to collect 6 samples of
4 from Vats at 3

on 2.28.

200 yds

150 yds

within 1/2 mile

int. to 0 & east

1645 EPP, DNREC & Fire Dept. securing the
entrances to the building.

Lab notes:

Harvest samples obtained by β^{32}
were from VAT's K, I, A, & C, &
and Doms Labeled Chromic Acid Sulfate,
Hydrogen Peroxide, and Nickel Chloride.
Results from HAZMAT areas
follows:

VAT K -

- Clear liquid
- pH 7
- Oxidizer - Neg.
- peroxide - Neg.
- Cyanide - Neg.

VAT I -

- Labeled zinc Cyanide
- Clear, greenish liquid
- pH ~11
- Oxidizer - Neg.
- Cyanide - Positive

VAT A -

- Labeled copper and bath
- clear blue liquid
- pH ~0

VAT F -

- unknown oily liquid w/ white residue
- 98% glycols, < 3% residue solids

- Liquid white residue
pH = 0 pH = 0
oxidant - POS oxidant - POS
peroxide - Neg peroxide - Neg.

Drum - Labeled Chromic Acid VAT
- open drum, no lid
- 100 lbs brown solid stuff

pH = 1
- oxidant - POS
- peroxide - Neg

Drum - ~~Labeled~~ labeled Hydrogen Peroxide
- clear liquid
- 50 gal black poly.

pH = 5
oxidant - POS
peroxide - POS.

Drum - Labeled Nickel chloride
- clear liquid
- 55 gal poly

pH = 2-3
Oxidant - NO

Last note:

Sample C
sent to be
purposed

PP1 - 15³⁰

PP2 - 15³⁵

PP3 - 15⁴⁰

PP4 - 15⁴²

PP5 - 15⁴⁵

PP6 - 15⁵⁰

#1 car to car

proto does

Sampling Done

Sample Done

Staged S.

Churn f. on

and
restarted h.

Then to Lab.

1715 The entrance
and hallway
keys of the
copied and
Police A to

1730 7th St the
departed &
and Police &
waiting for

1) liquid w/white residue
2) white solid

white residue
pH = 0

205 oxidic - pos.
207 prooxide - neg.

bnd chrome Acid SART
medium, no lid
2/4 brown solid stuff...

25

14
~~206~~ bnd Hydrogen Peroxide
no liquid
30 gal black poly.

5

6.

bnd Nickel Chloride
no liquid
5 gal poly

Lake note:

Samples collected to be sent
out to laboratory for confirmation
purposes by OSC are as follows:

PP1 - 15³⁰ - VAT A - Acid cyanide
PP2 - 15³⁵ - VAT F - Chromic Acid
PP3 - 15⁴⁰ - VAT I - Lime cyanide
PP4 - 15⁴² - VAT G - Chrome VAT
PP5 - 15⁴⁵ - Dimer - Nickel Sulfate
PP6 - 15⁵⁰ - Dimer - Sodium Acid

* refer to chain of custody in site HHS.
* prior decontamination occurred during
sampling of individual VATs,
samples obtained from VATs, +
staged samples as a ~~group~~ group.
Chain of custody completed + samples
~~referred~~ to go back to HHS office
then to lab.

1715 The entrance to the building is secured
and the building was bumer guarded.
Keys of the entrances were made ~~the~~
copied and distributed to local
Police & Fire Chief and DNRE.

1730 At the advice of the OSC the
departed site. The OSC, Fire Chief
and Police chief remained on site and
waiting for the Guard Service.

Monday August 21, 1995

- 1210 TAT **Ex. 4 CBI** & ET ERCS RM **Ex. 4 CBI**
and **Ex. 4 CBI** on site. —
- 1215 TAT & ERCS walked through the site.
ERCS RM West informed TAT that OSC has tasked ERCS to collect samples from the vats and drums. They will start collecting samples on Monday Aug 28, 1995.
ERCS will be on site noon time. —
- 1300 ERCS & TAT off site. —
Ex. 4 CBI

Monday August 28, 1995

- 1230 TAT Sikkdar on site.
- 1315 ERCS RM **Ex. 4 CBI** on site.
Unloaded equipment into the office room.
Equipment was delivered on site via truck.
- 1330 DNREC Jefferson was on site since 0900 hrs.
He also asked TAT about the action Plan and then left the site. He may come back at the end of the day. —
- 1345 ERCS RM & PCT went out to pick up a generator and other supplies. —
- 1450 TAT went to the Bladensburg Town Hall to notice few photo copies of the ERCS supply plan.
- 1515 ERCS Depart site.
- 1530 TAT Back from Town Hall, Locked the site and depart site.

Ex. 4 CBI

Tues

- 0700 TAT 8 ER
- 0705 Morning so
" Sampling
" Prep for s
" Corrosives
and inks
unless re
" Collect all
" Watch floor
- 0730 ERCS prep
of sampling
0745 ~~0745~~
ERCS started
marking the
lighting, etc.
- 0810 Air bottles on
- 0900 ERCS complete
of hot zone.
- 0915 OSC & TAT
meet with the
not available
- 0945 ERCS begin
for sampling.
- 1025 One crew cu.
for platting
him that the
Chief, because
picks back 2
ERCS out of
- 1130 OSC meet
- 1200 OSC meet
Vickman in b
the site achi
gather all cu:
shop and de

August 21, 1995

ET ERCS RM **Ex. 4 CBI**
King on site.

Walked through the site.
Informed TAT that OSC
is to collect samples
from drums. They will start
on Monday Aug 28, 1995.
Site near done.
Left site.

Ex. 4 CBI

Aug 26, 1995 J

Site.

* **Ex. 4 CBI** on site
went into the office room.
Arrived on site via truck.
Was on site since 0900 hrs.
about the action plan and
he was gone back at
0700 hrs.
OSC went out to pickup
other supplies.
Waded Town Hall to update
of the ERCS supply from
site.

Town Hall. Locked the
exit gate. Waded back
to my truck.

Tuesday Aug 29, 1995

- 0700 TAT & ERCS on site.
- 0705 Morning safety Meeting.
- * Sampling of drums and Vats in Level B.
 - * Prep for sampling inside building in Level C.
 - * Corrosives, acids, cyanides, lab packs
and unknowns. Don't move anything
unless required.
- * Collect all customers parts and clean.
 - * Watch floor steps.
- 0730 ERCS prep for a Level C entry for prep
of sampling.
- 0745 ERCS started entering the hot zone for
marking the Vats and drums, in setting up
lighting, etc., in prep for sampling.
- 0810 Air bottles on site (Air Products). 12 bottles.
- 0900 ERCS completed prep for sampling 2 out
of hot zone.
- 0915 OSC & TAT visited the Town Hall to meet
with the Police Chief, but he was
not available. Left a message.
- 0945 ERCS begin entry hot zone in Level B
for Sampling.
- 1025 One own customer who gave his parts
for plating was on site. TAT informed
him that he should talk to the Police
Chief, because he will be returning the
parts back to the original owner.
- 1130 ERCS out of hot zone.
- 1200 OSC meets the Blades Police Chief
Vickman in his office and updates him
the site activities. He said that ERCS will
gather all customer parts from Page 45 of 64
shop and clean those and will also

Wednesday

them in the room next to the stairs. The Police chief said that he will contact the shop owner Donoway and ask him to come one day and identify and deliver the parts to the rightful owners. OSC also suggested that if Mr. Donoway can come tomorrow and walk through the site with TAT & ERCS to find out and gather all parts, that would be very much helpful. Police Chief Vickman tried to contact Mr. Donoway and several other customers over phone, but could not succeed. The OSC also updated the Fire Chief Chaffinch on site activities. He said that in addition to sampling ERCS will segregate all drums into compatible groups, clean an area in the m/c shop and gather and segregate all small containers.

- 1430 ERCS completed collection of samples.
 1645 ERCS collected a total of 41 samples this date; 14 vat samples and 27 drum samples. ERCS could not collect samples from few drums because they could not be sampled without ^{cutting} opening the top of the drums. They did not collect sample from any container less than 5 gallons. ERCS cleaned an area and started putting all the small containers and lab packs there or risqueen for future sampling and disposal
- 1700 All personnel off site.

- 0700 TAT & ERCS
 0710 Morning safe
 " Collection on
 " Collection on
 " all operation
 " Watch fire
 take entry
 1900 on site TAT talked to asked TAT a sampling trip last Polrep.
 McGoldrick (activities in to to go through analytical p
 TAT Sikdar is discuss on the Analytical Co. with common go through to that all co and staged & pulled out
 0720 ERCS prepare and decom at ERCS complet and lab pack in the m/c S.
 " 34 - 5 g
 30 poly
 " x 21 - 1 g
 217
 " 16 aerosol
 " 20 glassware

Ex. 4 CBI

Wednesday Aug 30, 1995

om next to the stairs .
said that he will contact
or Donaway and ask him
y and identify and
to the rightful owners.
d test if Mr. Donaway
ow and walk through
-8 ERCS to find out and
, that would be very
3lice Chief Vickman tried
maway and several other
phone, but could not
SC also updated the
Kinch on site activities.
n addition to sampling
the all drums into compatible
area in the m/c shop and
ate all small containers .
collection of samples .
at total of 41 samples
at samples and 27 drum
and not collect samples
because they could not
^{1 cutting} opening the top of
did not collect samples
less than 5 gallons .
area and started
small containers and
on risqueen for future
use . ——————
———
———

- 0700 TAT & ERCS on site .
0710 Morning safety meeting:
" collection and segregation of all small containers
" collection and decon of all customer parts .
" all operations inside building in level 'C' .
" Watch for fall and trip . ——————
TAT entry
1900 on 8/30 TAT talked to OSC Staunton on phone . OSC
asked TAT to draft one Potrep for this
sampling trip including the actions after the
last Potrep . He asked TAT to talk to OSC
McGoldrick (Enforcement) and include his
activities in the Potrep . He also asked TAT
to go through the bid package for
analytical prepared by ERCS and comment .
TAT Sikdar said to OSC that he will
discuss on the bid package with TAT
Analytical Coordinator and provide him
with comments . The OSC asked TAT to
go through the site with RM to make sure
that all containers have been segregated
and staged and all customers parts have been
pulled out . ——————
0720 ERCS prepare for entering hot zone to collect
and decon all customer parts .
0900 ERCS completed inventory of the small container
and lab packs and staged them on poly
in the m/c shop area:
" 34 - 5 gal containers staged .
" 30 poly , & on the average $\frac{1}{2}$ full .
" \approx 21 - 1 gal containers staged .
" \approx 17 poly .
" 16 aerosol containers staged
" 20 aluminum containers stored .

- " Approx 35 other contain staged
Paint
Charcoal Fluid
Old Samples.
- Approx 47ml 110 small containers staged.
ERCS RM mentioned to TAT that all
drums in the drum area have been staged
1000^(@) except those which have trash in them.
- 1020 ERCS measuring the volumes of liquid
in vats inside the plating shop and
deconning & staging the customer parts.
- 1015 One of the customers on site. TAT requested
him to contact with the Police & chief for
delivery of his parts.
- 1200 TAT walked through the site with ERCS
RM and looked for any containers
or parts left behind. Found 4 small
glass bottles with little liquid in them
and staged them with other containers.
This brought the total # of glassware
to 24. Also, found a bag containing
some kind of solid and staged in the
m/c shop area. Also, found some customer
parts and placed for deconning. TAT
photo documented the drum staging area
and the small container storage area. ERCS
RM told TAT that the laboratory for
disposal analysis could not be arranged
because ERCS needed further clarification
on analysis from OSC. So, they will leave
all the samples on site. He said that the
32-oz jars for lab analysis's have
been packed in coolers and a chain-of-
- Custody for
8-oz jars
in coolers &
was filled for
be able to -
have to come
TAT informed
and Fire ch
site and also
- 1315 TAT went to
Viehman. He
message the
been gathered
room next to
- 1330 Truck on site
and supply.
- 1430 ERCS RM We
except the ad
the office to
- 1615 The gas co. o
cylinder. :
remain on s

other containers staged

nd

? small containers staged.
rtioned to TAT that all
in area have been staged
ich have trash in them.
the volumes of liquid
- plating shop and
g the customer parts.
was on site. TAT reported
t the Police & chief for
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ough the site with ERCS
- for any containers
hind. Found 4 small
t little liquid in them
with other containers.
Stat # of glassware
and a bag containing
l and staged in the
Also, found some customers
fr decontaminating. TAT
in down staging area
inner storage area. ERCS

the laboratory fr
ould not be arranged
ed further clarificatio
c. So, they will have
site. He said that the
r lab analysis have
done and a chain-of-

Custody form will be with each cooler. The
8-oz jars collected from were also packed
in coolers and a chain-of-custody form
was filled for them also. When ERCS will
be able to finalize the lab, somebody will
have to come to the site and ship the samples.
TAT informed ERCS RM that the local police
and Fire chief has a set of keys for the
site and also DE DNREC has sets of keys.

1315 TAT went to meet the Local Police Chief
Viehman. He was not available. Left a
message that all customers parts have
been gathered, decontaminated and staged in the
room next to the stairs.

1330 Truck on site to pickup ERCS equipment
and supply.

1430 ERCS RM West made all sample coolers ready
except the address of the lab and placed in
the office room for future shipment.

1615 The gas co. on site to pick up the gas
cylinder. TAT depart site. ERCS RM

Ex. 4 CBI on site.

Ex. 4 CBI

Tuesday

- 0500 TAT mobs
- 0800 TAT on Site
- Safety me.
- Acids, Bas
- Solids. Ha
- Hazards
- 0900 Additional portable b.
- crew on
- + 1 AM
- 1 Generator
- Kit.
- 1000 Continue 1
- Containers
- + 1130 OSC Sta
- x 25 S
- 1200 John Do
- on Site
- + parts t
- 1315 **Ex. 4 CBI**
- on Site.
- 1230,
- 1330 Blades Fi
- to provide
- lights
- 1500 John Doe
- returning
- pick up e
- J. Donaway
- be able
- & possibly
- check on
- + V-2 N:CI

- Tuesday Sept 26, 1995
- 0500 TAT mobs to site.
 - 0800 TAT on site ERCS(3) on site 0715. Safety meeting + review Plan. Acids, Bases, unknowns, Liquids Solids. Haz-Cutting. Physical Hazards Slip Trip Fall, Lighting.
 - 0900 Additional lighting installed portable lights + generator. crew on site - 1 Chemist / Tech + 1 AM 2 vehicles (rental). 1 Generator, 1 Porter John - 1 haz-cut Kt.
 - 1000 Continue haz-cut of small containers.
 - + 1130 OSC Startville on site x 25 SC Haz-cut ed.
 - 1200 John Donaway - owner operator on site w/ helper to ID tools + parts + retrieve tools.
 - 1315 **Ex. 4 CBI** + OSC McGoldrick on Site. Police Chief on Site
 - 1230,
 - 1330 Blades Fire Co. Chief on Site to provide generator + portable lights
 - 1500 John Donaway off site. returning on Thursday to pick up equipment.
 - J. Donaway indicated he may be able to use all tools + possibly V-6, V-7 Solutions change check on V-8 (KCN) V-1 copper + V-2 Nickel -

noted that V-4 Sulfuric has lots of sludge in bottom used to strip Nickel + chrome. Draw of Acti-Salt #6 used in Activator Tank at 15 lb : 400 gallons of water, process.

C-clean in caustic -

- ① Rinse
- ② Activator ^{ask about}
chrome
- ③ Rinse
- ④ KCN Strike
- ⑤ Rinse
- ⑥ Acid Copper
- ⑦ Buff
- ⑧ Wash
- ⑨ activate
- ⑩ Nickel Bath

1610 EPA Enforcement continue Document search.

ERCS continue Haz-Cat & segregating groups.

1600 E660 + 4 off-site

1700 SL + 7L today. Haz-Cat. Samples \approx small containers.

1710 All off-site.

2000 ERCS + TAT meet to review analytical Disposal Groups. Tentative groups set-up. Based on D-Listing wastes.

- 13-14 C
 1. Acid - Ox
 2. Acid Lig.
 3. Acid-Lig.
 4. Neutral L
 5. Neutral L
 6. Neutral L
 7. Base Lig.
 8. Base Lig.
 9. Acid - ox
 10. Base Sol
 11. Base Lig
 12. Inert S
 13. Organic
 14. Cadmium
 Notes:

Find Haz. Con test param.

Treatment Step reduce hex to

D002 Acid

RCRA: R

incineratio

D003 CN: ;

Waste Site
PPE + Rinsa

2300 End of -

DISPOSAL
PLANS

V-4 Sulfuric
shbys in bottom
→ Nickel + chrome
+ salt & is used
+ Tank at
tens of water.

· Caustic -
· ask about
chrome.

Take

at

at
ement contained
search.
use Haz-Cat
19 groups,
size
y-Haz-Cat.
Containers.

need to review
spousal groups.
as set-up,
- listing wastes.

13-14 Groups.	
1. Acid - Oxid. Liquid (chromic acid)	D001 D002
2. Acid Lig.	D002
3. Acid-Lig-OX	D001, D002
4. Neutral liquid - rinsewater	D007?
5. Neutral Liquid - Nickel Solution.	
6. Neutral Liquid-OX Blue (copper?)	D001
7. Base Liquid	D002
8. Base Lig. OX	D001, D002
9. Acid - ox Solid (chromic + Drum 20)	D001, D002
10. Base Solid	
11. Base Liquid CN	D003
12. Inert Solid	
13. Organic Flam. Liquid.	D001
14. Cadmium	D006 10ppm

Notes:

Find Haz. Constituents

test parameters

Treatment Standards - D001 ox: CHRED
reduce hex to trivalent chrome. Chem Reduction.

D002 Acid: NEUTR: Neutralize

RCORR: Recovery of acids can include
incineration for recovery.

D003 CN: 261.23(a)(5) ?

Waste Streams not addressed -
PPE + Rinsates vessels

2300 End of Day.

ORIGIN
R&D

Wednesday Sept 27, 1995
0700 ERCS + TAT on site.

Set up & Safety meeting
Acids, Bases, Liquid Bulkage
Haz-Cat. Lighting.

0800 Security off S.H.C.

Bulking Small containers acc'ds.
Continue to establish Disposal Groups.

Acid Liquid Group - 12 small
containers into DR-25
SC-001, 5, 8, 22, 41, 42, 43, 58
63, 64, 67, 68.

~~NEARBY~~

0900 on site 1 TAT 3 ERCS
Weather clear & warm 60-70's.

Equip: 2 Rental Trucks PortaJohn
1 Generator 2 Lights.

1000 Continue haz-cat & establish
Disposal Bulking Groups.

1200 Order of Drums on-Site (8)

1300 Continue Bulking & Haz Cat.

1400 chief Police on Site.

Resample "Level C" 4 Drums
& Sample 2 new Drums.

1500 all small containers bulked
into Drums. & 3 new Drums
(Created Total 44 Drums
& 14 Vats (13 process Vats).

1530 Haz-Cat Resampled Drums.

1700 Off-Site continue Disposal Group
Work at Hotel. for 1 hour billed.

note: upd
activities,
Cadmium
No level
Need to
for 2 5
Cadmium
Cadmium
Corrosive
Chemtec
St Louis
314 966

Bulked Sm
5 gallon c
12 small con
10 12 oz Bott
5 small con
4 small con
18 small con
10 - 12 oz Bott
7 small co
12 bottles/c

Air Preo

ORIGINAL
(Rev)

Tuesday Sept 27, 1995
on site.
Safety meeting
Liquid Bulk Reg
Lighting
Site.
all container acc's.
establish Disposal

group - 12 small
into DR-25
2, 41, 42, 43, 58

AT 3 ERCS
at + warm 60-70's.
+ 1 Trucks PortaJohn
- 2 Lights.
- cat + establish
King Groups.
ms. on-Site (8)
King + Haz cat.
on Site.
ewel C" 4 Drums
new Drums.
ontainers bulked
+ 3 new Drums
1 44 Drums
3 process Vats).
mped Drums,
ave Disposal Group
for 1 hour billed.

note: updated osc of Day's
activities + tentative groupings.
Cadmium group not sampled.
No level B PPE on site.
Need to call Manufacturer
for 2 5 gallon jugs of sealed
cadmium product.
Cadmium Fluoborate 50%
Corrosive Liquid NOS UN1760
Chemtech 1655 Des Peres Rd
St Louis MO 63131
314 966-9900 - 314 205 1188

Bulked Small Containers , into Groups:
5 gallon Container SC 12 → V-8 Base (NH₃)
12 small containers +
10 12 oz Bottles HNO₃ → DR-25 Acid Liquid
5 small cont → DR-26 Acid Lig. OX.
4 small cont → DR-37 Base Solid
18 small cont → DR-38 Base Lig. CN
10 -12 oz Bottles NaOH → DR 02 Base Lig. CN
7 small cont +
12 Bottles Jars → DR-42? Flam Lig. Org.

Air Products 302-836-2500 Del City DE
410 742 3800 Salisbury MD

Universal
Recycling

Thursday, Sept 28, 1995

0700 ERCS & TAT on site.

Disposal Groups set up
& Sampling continues.

Composite samples for Disposal
Groups

3 Liters of each Sample
Collected.

Weather clear & warm. Temps 70's

3 ERCS & 1 TAT

return generator today.

0715 Safety meeting: usual topics.

0900 Compatibility proceeding.

1000 Drum #20 reacts w/ Acid Solids
Chromic group will ~~be~~ combine
w/ Vat #13, which is a mixture
of Drum #20 & water -
activator solution

Glassware Drum set-up

1100 Sampling / compat complete.

Start Chain of Custody &
clean-up site.

1230 Chain of Custody complete

1300 owners of materials arriving
on site. ERCS prep to leave.
Police chief on-site.

1315 Joe Lorr:
receipt
3 Back f
collected.
Jim Brac
4 eye Bolt
4 Lock car
2 pull ha
Not Found
Nuts & B.
Retrieved

1500 Richard
Grill Hl

James Gr
retrieve

1705 off-site

UNIVERSITY
OF TORONTO

ay, Sept 28, 1995
site.

ups set up
continues.
amples for Disposal

each Sample

+ warm. Temps 20's

TAT

for today.

usual topics,
proceeding -
lets my Acid Solids
will ~~be~~ combine
which is a mixture
of water -
stion.

set-up
nt complete.

of Custody &

o.

Study complete
aterials arriving
prep to leave
on-Site.

1315

Ex. 4 CBI

Receipt for 3 front Pieces &
3 Back Pieces.

collected these pieces.

Ex. 4 CBI

436 -

Ex. 6 Personal Privacy (PP)

4 eye Bolts

4 Lock covers

2 pull handles w/ covers

Not Found.

Nuts & Bolts Cabinet (4 Drawer)
Retrieved

1500

Ex. 4 CBI

Grill 41 Chevy retrieved

Ex. 4 CBI

Retrieved partial of inventory.

1705 off-Site - security on-Site.

Thursday Oct 5

100 contact

Ex. 4 CBI

Ex. 4 CBI

- ChemTech

- Air Products

ChemTech Products Not in
Air products will be on-site
Monday to retrieve cylinder

Friday Oct 6

- 1130 765 - 7100 ChemTech Products-
company Name change.
No longer making Cadmium
Fluoride. Will send MSDS.
- 1230 Prep for Mob to site on Monday
Equipment & mobile Command Post
- 1330 Complete Safety Plan for
Site work to be started next
week.
- 1400 Equipment list in.
Contacted Police Chief Vieman
to report on-site activities
for Monday.

- 0730 TAT meets
vehicle -
1-vehicle
Command
- 0700 Get MCP
MCP oil
- 1200 TAT on
- 1330 1 SA/TA
Delran.
ERCS on
Security
Note A.
this AM
the west
- 1400 ERCS pre
Hepa-vac
Storage at
- 600 Decon se
- 1700 All off-Site

ERCS
Ready

day Oct 5

mar - ChemTech
n Son - Air Products -
products not in
will be on-site
retrieve cylinder

Y Oct 6

ChemTech Products -
in charge.
making Cadmium
will send MSDS.
b to site on Monday
mobile Command Post
fy Plan for
be started next

in
e Chief Vieman
ite activities

Monday October 9, 1995

0730 TAT meets at Delran. Load
Vehicle - 1 Van for site w/equipment.
1-vehicle to follow + 1 Mobile
Command Post.

0900 Get MCP + check running prep
MCP oil etc. + move to Site

1200 TAT on Site. 3 FA SA/TA

1330 1 SA/TA + 1 vehicle return to
Delran.

ERCS on site already.

Security on site.

Note Air Products was on-site
this AM + will return later in
the week. will call to schedule.

1400 ERCS prepping Decon area
Hepa-Vac Decon + equipment
Storage area.

1600 Decon set up continues.

1700 All off-Site.

- Tuesday Oct. 10, 1995
- 0750 TAT on site - security on-site.
Set up MCP
- 0800 ERCS on site. Safety Meeting
ACIDS, BASES, CN, METALS, DUST, PPE FOR
SPECIFIC TASKS, ROUTE TO THE HOSPITAL,
ONE LONG BLAST ONTHEN - Emergency,
Decide on Rally POINTS.
- 0830 Initial air monitoring. Monitox -
BACKGROUND CYANIDE 0-1 ppm,
Drager TUBES FOR ACID Negative,
Miniram - BACKGROUND PARTICULATE $^{0.3} \text{mg/m}^3$ TWA
Decon & Process Area (vats), Drum
Staging Area (DSA) all background
levels.
Miniram & Monitox Stationed
in Vat Room for continuous
readings.
- 1000 ERCS are cleaning area of Drum Staging Area
(DSA) and moving ^{co} prepping work area.
ERCS Have Level C PPE. Moved miniram
to their work area.
- 1100 OSC on site.
- 1230 Monitor Rdg. for Cyanide 0-1 ppm (background)
Miniram - Particulate 0.08 mg/m^3 TWA
- 1330 continue decon set-up &
Begin small contained & drum
cut-up for disposal.
- 1345 Perimeter Rdgs. with Microtip show 0 ppm
at Work Area.
- 1500 containers cut up continues.
WTIP Perimeter 0 ppm + miniram
 0.47 mg/m^3

- 1630 End of
OSC, ERCS
Accom
1. Arranged
3 add'l
 2. Trash
PPE Roll
bid.
on site 5
acid Pump
New (2nd
Drums)/
1H1 CT
1H2 Poly
 3. Completed
 4. Sbd. Beg
Set up
equipment
small c
roll off.
- 1730 All off

y Oct. 10, 1995
Security on-site.

c. Safety Meeting
1. METALS, DUST, PPE FOR
ROUTE TO THE HOSPITAL,
- ONTHORN - Emergency,
POINTS.

Monitoring. Monitox -
Cyanide 0-1 ppm,
R Acid Negative,
ROUND PARTICULATE $^{0.3} \text{mg/m}^3$ TWA
Area (vats), Drum
SA) all background

Monitox stationed
for continuous

area of Drum Staging Area
Prepping work area.

c PPE. Moved miniram
rea.

Cyanide 0-1 ppm (background)
Calcium 0.06 mg/ m^3 TWA
Set-up +
contained & drum
disposal -
With Microtip Show 0 ppm

up continues -
0 ppm + miniram

1630 End of Day meeting -
OSC, ERCS, SATA.

Accomplishments

1. Arranged phone hook-up for tomorrow
3 add'l techs move for tomorrow
2. Trash Dumpster on site.
PPE Roll-off to be put out for
bid.
3. Onsite 5 KW Generator
acid Pump Fittings + hoses
4. New(2nd) Porta John -
Drums/overpacks ordered -
1H1 CT + 55g OT
5. Poly overpacks
6. Completed Decon Setup -
7. S&E Began work area + DSA
Set up - Swept Debris restaged
equipment + began cutting
small containers + drums for
roll off. \approx 75% complete.

1730 All off site

LJ

- Wednesday Oct, 11, 1995
- 0720 ERCS + TAT on Site.
Set up Command Post
- 0730 Safety meeting - Topics Physical & Chemical Threats, Hospital Route & emergency procedures.
- 0740 Initial air monitoring
PID oppm Background + perimeter of work area.
Miniram - 0 - 0.02 mg/m³ in work Hot zone areas. Set up in work area DSA for continuous reading.
Colorometric - Acid Test - No readings in Hot Zone Areas.
Monitox - HCN - 0-1 ppm in all Hot zone areas - Set up in process room near delon.
- 0800 crew working in DSA
Be cutting up Drums & small containers. "Level C" PPE.
- 0840 Electrician on-site to check power off - no access to box on other side of building. will try again later.
- 0930 Telephone Bell Rep on-site - will return later.
- 1000 Clearing Debris in DSA continues -
- 1030 30kw Generator on Site.
TAT updating EPA + TAT costs & updating Site work Zone & Emergency Exit maps.
- 1100 Generator will arrive
- 1110 Bell Tell re, 2-Lines.
- 1130 ERCS ARE WORKING ARE CLEARING DI COLOROMET MONITOR MINIRAM Moved in MICROTRI Mini Ra Hours. 1
- 1200 Phone + Fax Phone - 3E Fax 3E
- 1445 ERCS WORKING SWEEPING AND WASTE THAN Installation of COLOROMET Monitor MINIRAM MOVED N MICROTRI
- 1530 TAT update ERCS on & T+D.
- 1630 DRAFT P
- 1700 ERCS CONTIN debris from the

10/11/95

day Oct, 11, 1995

in Site.

nd Post

- Topics Physical
reats, Hospital
gency procedures.

monitoring

Background & perimeter

• 0.02 mg/m³ in
areas. Set up
DSA for continuous

- Acid Test -

in Hot Zone Areas.

- 0-1 ppm in all

zs. Set up

om near delon.

ng in DSA

✓ Drums & small

Level C" PPE.

in-Site to check power

is to box on other

ng. will try again

Ref on S. IC

Latent

ris in DSA continues

atol. on Site.

ng EPA & TAT costs

the work Zone

Exit Maps

1100 Generator came w/out motor key.
will arrive by tomorrow -

1110 Bell Tell rep returns to hook up
2-Lines.

1130 ERCS ARE WORKING IN MACHINE SHOP AREA. THEY
ARE CLEARING DEBRIS.

Colorometric - Acid TEST - Negative in Hot Zone

MONITOR - HCN - 0-1 ppm in Hot Zone

Miniram - Rdg - (0.0)^o 0.36 mg/m³ TWA

Moved miniram to MACHINE SHOP.

MICROTIP - 0 ppm in Hot Zone

Mini Ram 2.32 mg/m³ at 1125

HOURS. Readings up to 26.0 mg/m³

1200 Phone & Fax installed & working
Phone - 302-628-3082
Fax 302-628-3089 -

1445 ERCS WORKING IN THE PLATING AREA CLEARING DEBRIS.
SWEEPING AND HEPA VACUUMING IS CREATING MORE
WASTE THAN ANTICIPATED DUE TO ^{CO} the
installation of adequate lighting.

Colorometric - Acid TEST - Negative in Hot Zone

Monitor - HCN 0-1 ppm in Hot Zone

MINIRAM - Rdg 0.93 mg/m³ (~~0.93~~)^o at 1430p
0.33 mg/m³ TWA

Moved Mini Ram for to PLATING Area

MICROTIP 0 ppm in Hot Zone

1530 TAT updating costs.

ERCS arranging equipment
& T+D.

1630 Draft POLREP #6 + #7.

1700 ERCS CONTINUE CLEARING DEBRIS. 1/2 drums of
debris from floors, walls, tabletops. were generated.

Page 33 of 64
(Continued)

1700 (cont) Colorometric - Acid Test - Negative in hot zone
 Minitox - ACN - 0.1 ppm hot zone
 Miniram - 0.39 mg/m³ TWA hot zone
 Microtip - Oppm Hot Zone

1715 End of Day:

Accomplishments:

1. Completed Cleaning & Decon of DSA - HEPA vacuum Floor cleared all Debris.
 Completed Polishing room.
 A appreciable accumulation of Dust on Floors & walls.
 Dust contained metal shavings generated 1½ Drums total
 Dust. Collected Contaminated debris from polishing or plating operation - 15 gallon bucket of metals. Contaminated anode possibly.
 Swept Process/Vat room.
2. Received Breathing Air 7 cylinders.
 30K Generator on-site
 Billed as 20K.
 Phone lines installed.
 Electrician on site but could not get access to chalk power shut down.
3. Air monitoring - Miniram highest 9.5 mg/m³
4. 3 techs moving in today will be on site tomorrow.

5. Small but n

1745 Site sh

Secure NC

1800 All off - S

Aud Test - Negative in Hot Zone
CN - 0-1 ppm Hot Zone
139 mg/m³ TWA Hot Zone
2 ppm Hot Zone

Day:

Remnants:

Cleaning & Decon
HEPA Vacuum Floor
Debris,

Polishing room.

Corrosion accumulation

on floors & walls.

Weld metal/shavings

1 1/2 Drums total
collected Contaminated
in polishing or plating
- 15 gallon bucket
S. Contaminated anode

Access/Vat room.

Breathing Air

IS.

Generator on-site

80K.

S. installed.

On site but

not access to

* Shut down

Storage - Mini-Ram

9.5 mg/m³

Robbing in today

on site tomorrow.

5. small containers segregated
but not cut-up today.
1745 SAC shut down. Lock up +
Secure ACP + Site. Security on site.
1800 All off - Site.

LL

Ex 4 CB

	Thursday Oct 12, 1995	
0730	ERCS + TAT on site. Safety Meeting. 3 new Techs on site. Physical + chemical hazards. Hospital + emergency procedures.	CN ELECTRO FROM OTT DRUMS ON PALETS OF Ex. 4 CBI
0745	New personnel head + sign HASP. + tour site.	1140 1145 1245
0800	Initial Air monitoring w/ Acid Drages Tube, CN Monotox + Miniram. CN + Acid Neg/No reading entire building. Miniram 0.02 → 0.24 mg/m³ Monotox + Miniram set in Vat Room.	Bill Skutskii ERCS HEPA (VATS) and for transfer Drum. —
0830	Prepare Air monitoring schedule for liquid transfer operations. Prep/update TAT + EPA costs.	1430 Site Object ERCS, and
0930	Moved MiniRam to work area (DSA). Prepping to cut up small containers.	1445 ERCS ARE IN AREA CUTTING filled drum Miniram 0.33
1100	DNREC on site John Mohrmann observe operations. Crew removing parts from vats + staging in empty vats. in machine shop.	Monitor Colorimetric MICROTI
1115	ERCS CREW REMOVING ELECTRODES FROM VATS IN PROCESS RM. Miniram moved to Process RM. Monotox Rdg HCN 0-1ppm Miniram 0.08 mg/m³ TWA 0.04 mg/m³	1630 ERCS are bu 730 Monitor + Colorimetric Miniram
	Colorimetric Acid Test Negative. Monitor worn by ERCS team member during removal of Electrodes from W vats Rdg 0-1 ppm.	1745 END OF i Accom 1. Removed + Stacked up 2. Swept flo + poly f

Today Oct 12, 1995
on site.

ting.

hs on site.

chemical hazards.

emergency procedures.

I Read & Sign

site.

monitoring w/

ube, CN monitor &

CN + Acid Neg/No

building.

$2 \rightarrow 0.24 \text{ mg/m}^3$

Ram Set in Vat Room.

monitoring schedule
transfer operations.

VAT + EPA costs.

into work area (DSA).

I up small containers.

site John Mohrman

rations.

ring parts from

giving in empty

machine shop.

WING ELECTRODES FROM VATS

Miniram moved to

Read HCN 0-1 ppm

0.08 mg/m³ TWA

0.04 mg/m³

ric Acid Test Negative.

urn by ERCS team member

val of Electrodes from

, 0-1 ppm.

CN ELECTRODES ARE BEING KEPT SEPARATE
FROM OTHER ELECTRODES.

1140 DRUMS ON-SITE.

PALLETS ON-SITE.

Ex. 4 CBI LEFT SITE.

1145 Bill Skutkville, OSC, ARRIVED ON SITE.

1245 ERCS HEPA VACUUMING PROCESS AREA
(VATS) and laying poly down in preparation
for transfer of liquids from VAT TO
DRUM.

1430 Site Objective Meeting held with EPA,
ERCS, and SATA.

1445 ERCS ARE WORKING IN DRUM STORAGE
AREA CUTTING UP EMPTY DRUMS and moving
filled drums.

Miniram moved to DSA.

0.33 mg/m³ TWA, 0.04 mg/m³

Monitor for Hot Zone 0-1 ppm

Colorimetric Acid Test Negative

MICROTIP - Open for Hotzone, Decon,

EQUIPMENT RM, and
Perimeter.

1630 ERCS are bulkling Chromic Acid Solids.

1730 Monitor in Pickle Zone 0-1 ppm

Colorimetric Acid Test Negative

Miniram (DSA) 0.39 mg/m³ TWA

0.51 mg/m³

1745 END OF DAY

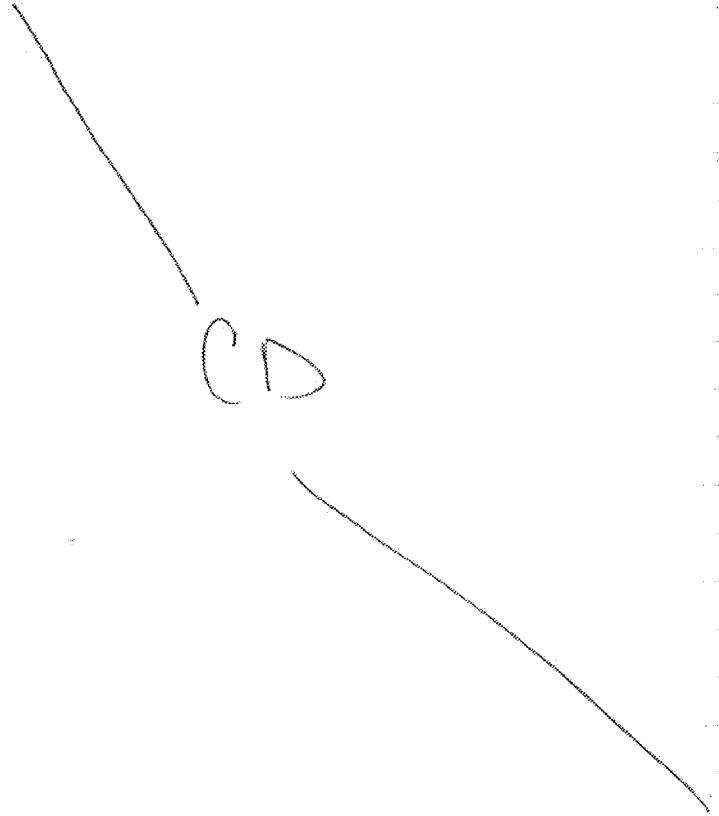
Accomplishments.

1. Removed wooden platform & Cinderblocks
Stacked cinderblocks on pallet

2. Swept floor & HEPA vacuum in VAT Room
& Poly floor.

3. Bulk Based solids group
 4. Bulk Chromic acid group.
 5. Set up air line system
 6. 1/2 drum from debris.
 1 drum from chromic acid
 1 drum from base solids
 7. Received drums, overpacks, pallets,
 air compressor & hoses
 8. Constructed drum filling stand
 9. Conducted on-site objectives
 orientation.
 10. Received key to generator.
- 1810** All off site.

CD



FRIDAY

0725 ERCS and Safety M
 0740 Safety Meet FOR SPECIFIC PHYSICAL AND EMERGENCY

0800 Initial MC Monitor

Minikam

Colorimeter

0815 ERCS consist STORAGE A

0900 Consolidating and cutting EMPTY DRUM

0920 MCCORMICK RD

0930 Note: EPA OS

0945 Electrician on

1100 Consolidating, cutting up Monitoring

(3)

1130 Colorimetric OF SITE

Ased solids group
chromic acid group.
AIR line system
from debris.
from Chromic acid
base solids
tins, over packs, pallets,
ressor & hoses
drum filling ward
on-site objectives
in.
ey to generator.

CD

- FRIDAY October 13, 1995
- 0725 ERCS and SATA on site
Safety Meeting
- 0740 Safety Meeting - TASKS FOR THE DAY, PPE
FOR SPECIFIC TASKS, CHEMICAL HAZARDS,
PHYSICAL HAZARD, EVACUATION ROUTES,
EMERGENCY PROCEDURES.
- 0800 Initial Monitoring of Hot Zone
Monitor 0-1 ppm Hot Zone - Set up in
Process Rm.
Minikam .18 mg/m³ Hot Zone Set up
in Drum Storage Area
Colorimetric - Acid Test Negative
in Hot Zone, Decon St^{op}
EQUIPMENT STORAGE, + Perimeter
- 0815 ERCS consolidating drums in Drum
STORAGE AREA.
- 0900 Consolidating drums in DRUM STORAGE AREA
and cutting up small containers and
EMPTY DRUMS (POLY)(HOPE). They are in Level C
MICROPA Rdg of Perimeter, Decon, EQUIPMENT Oppm
- 0920 Note: EPA OSC ARRIVED at 0900 hrs.
- 0930
- 0945 Electrician on-site.
- 1100 Consolidating DRUMS + Cleaning up after
cutting up containers.
Monitoring: Monitor 0-1 ppm Hot Zone
① Minikam .24 mg/m³ Work Area
.30 mg/m³ at 1045
② Colorimetric Acid TEST NEGATIVE
Decon, Hot zone.
CN TEST NEGATIVE
WORK AREA.
- 1130 Colorimetric Acid TEST NEGATIVE PERIMETER
OF SITE.
- Page 40 of 64

- 1140 EELS SETTING UP PUMPS TO TRANSFER
NEUTRAL LIQUIDS AFTER CLOUD.
- 1330 Mike Gordon, PTS, ON-SITE;
- 1500 CLEANING & PUMPING LIQUID + SLUDGE
FROM NEUTRAL LIQUID VAT (Ni)
in the process Rm.
- ① Monitor Hot Zone - 0-1 ppm
- ② Miniram .22 mg/m³ TWA Work Area
.10 mg/m³ @ 1430
- ③ Colorimetric Acid TEST Negative
CN TEST Negative
DECON Area & Hot Zone - Aud
Hot Zone - CN.
There is a drum of Acid in an overpack
THAT IS REACTING -- HEAT IS BEING
GENERATED. Drum is in DSA. Overpack
lid has been left off until the reaction
ools down.
- 1620 Overpacking drums in drum storage
area. Microtip Reading for
Decon, Equipment Room, AND
PERIMETER OF SITE Oppm
- 1730 Miniram .22 mg/m³ TWA Hot Zone
Monitor - 0-1 ppm HCN Hot Zone
Colorimetric - Acid TEST Negative HotZone
Setting Up for tomorrow in level D
- 1725 End of the DAY MEETING
- Accomplishments
1. Bulked neutral liquid Ni
drums in BACK 10 DRUMS → 2 DRUMS
then cut up drums.
 2. Bulked Acid liquid Oxidizers
2 DRUMS → 1 Drum.

6 UP PUMPS TO TRANSFER
LIQUIDS AFTER CLOUCH.

ETRS, ON-SITE.

PUMPING LIQUID + SLUDGE
INTO LIQUID VAT (Ni)

5. REM.

tot ZnC - 0-1 ppm

22 mg/m³ TWA WORK AREA
10 mg/m³ @ 1430

Acid TEST Negative
CN TEST Negative

ECON Area & Hot Zone - Aud

Hot Zone - CN.

No Acid in An Overpack

No Heat is Being

in in DSA. Overpack

to off until the reaction

drums in drum storage

tip Reading for

MENT Room, AND

F SITE Oppm

22 mg/m³ TWA Hot Zone

0-1 ppm HCN Hot Zone

Acid TEST Negative HotZone

2 tomorrow in Level D

✓ MEPTIN

ents

Neutral / Hau/ O Ni

BACK 10 DRUMS → 2 Drums

up drums.

1d Liquids Oxidizers

→ 1 Drum.

3. Pumped VAT #2 & VAT #5 Neutral
Hau/ O Ni 9 LIQUID DRUMS &
1 solid drum.
4. Received FORK LIFT. & Pressure Washer
5. Electrician will come back tomorrow.
to connect command post to
generator. ALL ELECTRICITY TO
BUILDING OFF, ELECTRICIAN MADE SURE
6. Inventory completed.
7. Sampled drums (#23, 27, 39)
AU OFF SITE.

CD

38

SATURDAY OCTOBER 14, 1995

0725 ERCS and SATA ON SITE

0735 SAFETY MEETING - Physical & Chemical Hazards, Hazards that Could occur if it begins to rain, Emergency Procedures, TASKS FOR THE DAY, PPE FOR SPECIFIC TASKS

0800 Monitoring -
 Monitor HCN - Hot Zone 0-1 ppm
 MiniRAM - 0.13 mg/m³ @ 0745
 Set up in Process Rm
 COLORIMETRIC - Acid TEST Negative
 Hot Zone, Decon, EQUIPMENT, Perimeter of SITE
 Working on removing liner from one of the Ni VATS FROM YESTERDAY.

0810 EPA OSC ARRIVED ON SITE

0855 ELECTRICIAN ARRIVED ON SITE TO CONNECT COMMAND POST TO GENERATOR.

0920 WORKING ON Ni VAT - Moving it, Cleaning up where it had been, cleaning it out.

1100 Monitoring -
 MiniRAM .07 mg/m³ TWA
 .11 mg/m³ @ 1045
 Monitor Hot Zone 0-1 ppm
 COLORIMETRIC - Acid TEST Negative, Decon, EQUIPMENT, Hot Zone, Perimeter of site
 - CN TEST Negative Work Area
 Pumping vat of Acid Salts.

1245 MID DAY MEETING
 1. Need Roll off Analytical
Disposal Bid PACKAGE, Wrap Up Removal

Acid Liq DRUMS # THIS AFTI LIQUID DRUMS RE COMPLETE

1330 The AIR COM COMPRESSOR LIQUID. The Monitoring

1400 Crew lefts

1405 END OF TI
 Accomp
 ① Acid
 Generat
 ② Air Com
 FIRST TH

1410 SATA lefts
 wait for:



OCTOBER 14, 1995

ATA ON SITE

ETING - Physical & Hazards, Hazards that if it begins to rain, Procedures, Tasks for E for specific tasks

CN - Hot Zone 0-1 ppm
0.13 mg/m³ @ 0745

up in Process Rm

IC - Acid TEST Negative
Hot Zone, Decon, EQUIPMENT, METER OF SITE

Removing liner from one ITS from YESTERDAY.

WEDON SITE

LIVED ON SITE TO CONNECT ST. TO GENERATOR.

Ni VAT - Moving it, Cleaning acid been, cleaning it out.

37 mg/m³ TWA

1 mg/m³ @ 1045

Hot Zone 0-1 ppm

IC - Acid TEST Negative, EQUIPMENT, Hot Zone, METER OF SITE.

-CN TEST Negative Work Area of Acid Salts.

ETING

loff Analytical Bid PACKAGE, Wrap Up Removal

Acid Liquid TRANSFER OF VAT #13, DRUMS #5 + #9. GENERATED 4 drums. THIS AFTERNOON - TRANSFER ACID LIQUID OXIDIZERS (VAT#1 & VAT#4) DRUMS FOR ACID OXIDIZERS ALREADY COMPLETED.

1330 The AIR COMPRESSOR broke down and the compressor is needed to pump the liquid. The ERCS cleaned up.

Monitoring Monitor Hot Zone 0-1 ppm MiniRAM .07 mg/m³ TWA .13 mg/m³ @ 1335 Colorimetric - Decon, EQUIPMENT Room, + Hot Zone Neg.

1600 Crew left site.

1405 END OF THE DAY

Accomplishments

① Acid Liquid Transfer (VAT #13, DRUMS #5 + #9, Generated 4 drums.

② Air Compressor will be taken care of FIRST THING Monday Morning.

1410 SATA left site. FCA remained on site to wait for Security.

(D)

- Monday October 16, 1995
 Note: FCA left site on Saturday @ 1600 hrs. when Security arrived on site.
- 0700 SARA on-site. FCA fixed the air compressor problem from Saturday.
 0720 ERCS on-site.
 0730 Safety Meeting - Physical & Chemical Hazards, Evacuation procedures, PPE for Specific Tasks.
 0745 Initial Monitoring:
 Monitor: 0-1 ppm HCN Hot Zone
 Colorimetric: Acid TEST Negative
 Decon, Equipment Room, Hot zone
 Mini Ram: 0.10 mg/m³ Hot Zone @ 0735
 Mini Ram & Monitor setup in Process Area.
- 0800 Air Compressor arrived from another place. Hertz will come out and fix the one that broke down on Saturday. THEN we will return the other air compressor.
- 0820 Pumping Acid Oxidizers.
 0915 Still working on VAT #1-Acid Oxidizers.
- 10/15 Air Products came by & picked up 1 cylinder.
- 1100 **Ex. 4 CBI** on-site.
- Monitoring:
 Monitor Hot Zone 0-1 ppm
 Colorimetric: Acid TEST Negative
 Decon, Pump. Room, Hot Zone : CN TEST Neg. Work Area
 Mini Ram : .09 mg/m³ TWA
- 1430 Freshold L delivered
 1500 Vats 6 + + vats de rinse.
 1530 OSC Down Crew change
 Contamination + will prep filling it.
 1630 Crew moving to the melt
 1645 Colorimetric Storage Area waste stri
 1715 Colorimetric H₂O on F

October 16, 1995

ft site on Saturday @

i. when security arrived

e. FCA fixed the air
problem from Saturday
fe.

ting - Physical & Chemical
evaluation procedures.

fix Tasks

monitoring:

2-1 ppm HCN Hot Zone
Acid TEST Negative
Econ, Equipment Room, Hot Zone
.10 mg/m³ Hot Zone @ 0735
onitor setup in process

re arrived from another
will come out and fix
t broke down on Saturday.
I return the other air

Oxidizers.

3 on VAT # 1-Acid

is came by & picked up

0 Thom on-site.

Zone 0-1 ppm

Acid TEST Negative

Econ, Equipment Room, Hot Zone

CN TEST Neg. Work Area

.29 mg/m³ TWA

Mini Ram : .22 mg/m³ @ 1050

1200 Hertz on site to switch air
compressor.

1300 Continue Process room liquid
transfer - Vat of chromic Acid.
transfer sludge. w/ Five gallon
Bucket. Mini Ram 0.12 mg/m³

1400 Continue w/ Liquid TRANSFER OF
CHROMIC ACID.

Monitor - HCN 0-1 ppm

Colorimetric Acid TEST. - Negative

Decon, Equip. Rm, Hot Zone

CN TEST - Negative

Work Area

Mini Ram : 0.09 mg/m³ TWA

- 0.06 mg/m³ @ 1350

1430 Freshhold Cartage on - site -
delivered 30 cy Roll-off.

1500 Vats 6 + 7 Transferred in to Drums
& vats decontaminated w/ water
rinse.

1530 OSC Downie on-site.

Crew changing poly on Floor.
Contaminated w/ chromic acids
& will prep roll-off & begin
filling it.

1630 Crew moving VAT (empty chromic acid vat)
to the machine shop.

1645 Colorimetric - Acid TEST - Negative - Drum
Storage Area. Crew is staging separate
waste streams.

1715 Colorimetric - Acid TEST - Negative - Drums A few
H₂O on floor in Process Rm - pH 2

- Monitox - HCN - 0-1 ppm
 MinIRAM - .08 mg/m³ TWA
- 1745 End of Day Meeting - Accomplishments.
1. 30 cu Roll-off - on-site.
 Staged PPE + Debris in Roll off -.
 2. Acid Liquid Oxidizers
 Vat 1 + Vat 4 9 Drums
 Vat 1 Copper Acid (1 Drum) rinsed
 Vat 4 Sulfuric Acid -
 2 addt'l Drums in group -
 DR-51 + DR-16 to be op'd.
 DR-10+25 combined
 11 Drums Total for group -
 3. Chromic Acid Liquids
 from Vats 6 + 7 generated -
 8 Drums Liquid + 2 sludge
 (DR-83 + DR-84)
 Vat 3 6 had Liner 7 no liner
 Liner Triple rinsed + staged
 + cut up + staged in PPE Roll off.
 Vats were rinsed + squeezed
 on in inside + left in place.
 Rinse water in DR 82 + 85
 8 Drums - DR 76, 77, 78, 79, 80,
 81 (DR 82 + 85 rinse)
 4. Replacement Compressor on-site.
 5. OSC Downie on-site.
 6. SawZall on-site - 1330 hours
- 1800 OTE - Site

Tuesday, (

- 725 EPA, SARA, ERIS
- 730 Safety Meet Hazards, Eval Procedures, P up in level.
- 745 Monitoring Monitor - in F MinIRAM - Process Colorimetric PH PAPER
- 750 Crew is out is also Clea
- 0700 contact chi Flukegate /
- 0930 Rosalind Pow
- 1015 Monitoring Monitor - Colorime MINIRAM
- PH - 6 Crew is clec drums in groups.
- 1100 Crew is contr organize di

EPA

HCN - 0-1 ppm
0.08 mg/m³ TWA
Meeting -
nights.
11-off - on-site.
DE & Debris in
-
1D Oxidizers
Vat 4 9 Drums
per Acid (1 Drum is rinsed)
Sulfuric Acid -
Drums in group -
+ DR-16 to be OP'd.
combined
Total for group -
Acid liquids
5, 6 & 7 generated -
Liquid & R sludge
84)
+ Liner 7 no liner
ole rinsed & staged
staged in PPE @ off.
rinsed & squeezed
de & left in place.
ter in DR 82+85
(76, 77, 78, 79, 80,
-85 rinse)
+ Compressor on site.
in on-site.
in-site - 1330 hours

Tuesday, October 17, 1995

0725 EPA, SARA, ERIS on-site.

0730 Safety Meeting - Chemical & Physical Hazards, Evacuation and Emergency Procedures, PPE for specific tasks, Move up in level of protection if necessary.

0745 Monitoring:
Monitor - Hot Zone HCN Negative - Set up in Process Rm
MinIRAM - 0.15 mg/m³ - Set up in Process Rm
Colorimetric - Acid TEST - DECON, Equip. Rm, Hot Zone - Negative
PH PAPER - AIR in Hot Zone - App. b
0825 Crew is cutting drums ^{outside} to the DSA. Crew is also Cleaning VAT #6 - Chromic Acid
0900 contact chemtree for Cadmium Fluoborate MSDS - 1800 262-8200
0930 Rosalind Pough arrived on-site
1015 Monitoring:
Monitor - Hot Zone 0-1 ppm
Colorimetric - DECON, Equip. Rm, Hot Zone - Neg.
- Acid TEST →
MinIRAM - 0.01 mg/m³ @ 1000
- 0.04 mg/m³ TWA
PH - 6
Crew is cleaning VAT #6 and organizing drums in appropriate waste stream groups.
Crew is continuing to clean VAT #6 and organize drums.

- 1200 VAT #6 (Cr Acid) cleaned.
Begin Pumping of Caustic Soda
Vat contents.
TAT updating EPA + TAT costs.
- 1300 Prep for CN Liquid Transfer
PPE + expendables delivery.
on-site.
- 1500 Monitor: 0-1 ppm HCN Hot Zone
Min RAM: 0.04 mg/m³ TWA {Hot Zone
0.15 mg/m³ @ 1445}
Colorimetric: Acid Test Negative
Devon, Paul P. Run, Hot Zone
PH - 6 for Air; 6 for liquid on Floor.
- 1530 Crew is overpacking drums because the
Condition of the drums is poor and
the drums are leaking.
Fuel Delivery for generator.
- 1745 Monitor during CN soln transfer
VAT #8 & Two drums transferred.
Monitor - HCN 0-1 ppm in Hot Zone
PH Paper - Inside VAT #8 - 13
- water on Ground - 9
- wastewater - 8 (from water)
Min Ram = .10 mg/m³ TWA
Dräger - CN - Negative
9 Total Drums CN Transfer.
- 1800 End of Day meeting:
Accomplishments -
1. Rinsed + Removed Liner from
Vat 6 cr acid.
2. Cleaned discolored areas.
2. Pumped
Base
3. Drums
Liquids
4. Overpac
Drums
5. Rinsed
+ in P
6. Cut up
CN Dr
7. Staged I
8. Forklift
9. Air no
Bkgrnd
~ 1 mg/
10. Distrib
Nickel
they in
no good. di
Drum Con
Nickel S
11. Suspecte
sent to
Sample.
12. Office
All off-

Acid) cleaned.
ing of caustic Soda
ts.
ng EPA + TAT costs.
Liquid Transfer
dibles delivery.

1 ppm HCN Hot Zone
0.4 mg/m³ TWA {Hot Zone
0.15 mg/m³ @ 1445}
Acid Test Negative
on, Envir P.Rn, Hot Zone
Air; 6 for liquid on Floor.
aking drums because the
the drums is poor and
re leaking.

1 for generator.
g CN sohn transfer
drums transferred.
0.1 ppm in Hot Zone
side VAT #8 - 13
ter on Ground - 9
stwater - 8 (from water tank)
10 mg/m³ TWA
- Negative
ns CN Transfer.
1 meeting:
ments -
removed Liner from
id.
colored areas.

2. Pumped + Deconed vat 3.
Base Liquid
3. Drums 2, 3, 8 + U-8 cn
Liquids pumped - 9 Drums generated.
4. Overpacked 12-13-14 - 15 + 38
Drums containing CN Liquids.
5. Rinsed + cut up Vat 3 liner.
+ in Roll-off
6. Cut up emptied Drums -
CN Drums Triple rinsed
7. Staged Drummed material 5.
8. Forklift flat Tire.
9. Air Monitoring No levels above
Bkgrnd CN + Particulates
~ 1 mg/m³ Twd.
10. Distributor for 1 Drum of
Nickel Sulfate contacted.
They indicated material is
no good due to temperature sensitivity.
Drum Contents added to waste stream
Nickel Solution -
11. Suspected Cadmium sample
sent to lab + Floor sweep
sample. TCLP metals + corr. + React.
12. Office arranging T+D package
All off-site

TJF

	Wednesday Oct 18, 1995	
0720	EPA, ERCS, SARA 1 on site. Safety meeting: Physical + chemical hazards.	1330 Crew is Con empty drums Mini Ram
	For today - Finish Vats + Drums move Vats out of room to clean floor -	1400 keen Gas Breathing Crew Deco work area
0810	Initial Monitoring Monitor - Hot Zone, Decon 0-1 ppm Mini RAM - 0.13 mg/m³ @0800 Colorimetric - Acid TEST Decon, Hot Zone - Neg. - CN TEST Decon Hot Zone - Neg	1415 Monitor - - Monitor - - MiniRAM CKE - Colorimet Acid CN
0900	Crew cleaning VAT #8 (CN) - Decontaminated it.	1530 Crew Clean placing II
0930	Clean up and put away airlines in Process Rm. Clean up drums to be cut later Draft for LREFS 12 + 13.	1600 continue Drum Cover 1D Drums 130 cu ft 12 Stream Chromic Acid Acid Liquid Acid Liquid Nickel Nei CN Base Lin Base Lig Base Soln Org. Flama Lad. Acid Floor Sweep
1000	Monitor & Read 0 ppm HCN in Hot Zone MiniRAM 0.03 mg/m³ @0945 0.06 mg/m³ @TWA	
	PH PAPER Water on floor - 7 VAT #8 (CN) - 8-9 Drum (Windex) - 10 Drum (CN) - 9	
1030	Moved MiniRAM to D.S.A. Crew is working outside the DSA and in the DSA. PH PAPER VAT for WASTEWATER - 7 Crew is cutting up Wood and Breaking cinder blocks and placing them in roll off.	
1130	Crew continuing to cut wood and cinder block to place in the dumpster	

esday Oct 18, 1995

TA on site.

ng: Physical + chemical

inish Vats + Drums
et of room to clean

TORING

ot Zone, Decon 0-1 ppm
0.13 mg/m³ @ 0800

Acid TEST Decon, Hot Zone - Neg.
CN TEST Decon Hot Zone - Neg
AT[#]B(CN) - Decontaminating

ut away Airlines in
ear up drums to be cut later
EPS 12 + 13.

0 ppm HCN in Hot Zone

13 mg/m³ @ 0945

16 mg/m³ @ TWA

ste on floor - 7

AT[#]B(CN) - 8-9

um (Windex) - 10

um (CN) - 9

nto D.S.A. Crew is
ide the DSA and in

for WASTEWATER - 7

up Wood and
blocks and placing

f.
to cut wood and
place in the dumpster

1330 Crew is continuing to cut up wood,
empty drums, and Cinder blocks.

MinKern .06 mg/m³ TWA

.17 mg/m³ @ 1330

1400 Green Gas on Site to retrieve
Breathing Air - ~~2~~ cylinders 7.
Crew Deconing + Cleaning
work areas.

1415 Monitor -

- Monitor HCN - 0 ppm

- MinKern moved to Process Room where
CREW IS WORKING. Edg 0.38 mg/m³ @
Colorimetric

Acid TEST - Hot Zone, Decon Negative.

CN TEST - Hot Zone, Decon Negative

Crew cleaning up cinder blocks and
placing in roll off.

1530 continue clean-up activities.
Drum Count: 78 Drums

10 Drummed Waste Streams

130 cy roll-off Waste Stream -
12 Streams Total -

Chromic Acid Liquids - 13 Drums

Acid Liquids 4 Drums

Acid Liquid Oxidizer 11 Drums

Nickel Neutral Liquids - 18 Drums

CN Base Liquids - 16 Drums.

Base Liquids - 8 Drums

Base Solids - 1 Drum

Org. Flammable Liquids - 1 Drums

Rad. Acid Liquids - 2 Drums

Floor Sweepings 4 Drums -

1700 PH of VATS

* VAT #7 Inside & outside pH 3 (Chronic Acid)

VAT #8 Outside pH 14 (THIS

VAT WILL BE RECLEANED)

Inside pH 8-9 (CN)

VAT HOLDER FOR VAT 1 pH 5

VAT #6 (Chronic Acid) pH 5-6 inside

+ outside

VAT #3 (Caustic Soda) pH (7^o) neutral

INSIDE AND OUTSIDE

VAT #13 (ACID LIQUID) pH neutral

INSIDE & OUTSIDE

* VAT #7 WAS UNLINED METAL

Outside pH 5, inside (same as above) pH 2-3

FLOOR SPOTS - STAINED AREAS pH RANGE

FROM 5-7

1245 End of Day Meeting:

1. Began Demote ops.

Decon Acid pump + hoses.

Breathing Air Demoted.

Deconed Level B PPE.

2. Completed all Transfer, bulking

+ overpacking 78 Drums

Generated 11 Disposal Groups

3. Continued generating Bulk

Contaminated Debris. into

30 cy roll off- wood, cinderblock

+ PPE.

4. Continued Decon of Vats,

+ Floor-in Process room-

5. T+D coordinator starting

Bid Prep from Richmond.

6. Flat Ti

7.

inside & outside pH 3 (chromic acid)

outside pH 14 (THIS

RECLEANED)

inside pH 8-9 (CN)

Fox VAT 1 pH 5

chromic acid) pH 5-6 inside

10E

Naustic Soda) pH (7) neutral

inside and outside

CID Liquor) pH neutral

inside & outside

LINED METAL

1-5, inside (same as above) pH 2-3

STAINED AREAS pH RANGE

5-7

Meeting:

more ops.

1 pump & hoses.

4:1 Demobed.

level B PPE.

all Transfer, bulk ing

ng 78 Drums

11 Disposal Groups

generating bulk

ed Debris. into

off- wood, cinderblock

Decon of Vats,

Process room-

linalor starting

from Richmond.

6. Flat Tire on Forklift fixed.
7.

Thursday Oct 19, 1995

0725 EPA - ERCS TAT on site.
Safety Meeting - Physical & chemical hazards, Emergency procedures.

0740 Set up work areas.

0755 Monitoring:

Monitox - Hot Zone - 0 ppm
Miniram - Hot Zone - 0.09 mg/m³
(@0750)

- Miniram Setup in Process Rm
Colorimetric Acid TEST NEGATIVE
Decon, Equip. Rm, Hot Zone
@CN TEST NEGATIVE
Hot Zone.

0800 Crew is HEPA vacuuming Process Room floor and other surfaces.

0930 TAT updates EPA + TAT costs.
ERCS + EPA review inventory of expendables.

Crew Decontaminating Vats.

1000 TAT drafts POLREP #14.
Arrangements made w/ SARA office to demob MCP.

1030 Monitor -

Monitox - 0 ppm - HCN
Miniram - 1.96 mg/m³ TWA
- 0.21 mg/m³ (@1020)

Moved Miniram to D.S.R.
Acid TEST - Neg. - Decon, Equip. Rm,
Hot Zone.

CN TEST - Neg - Decon, Equip. Rm, Hot
Zone.

Crew is HEPA vacuuming D.S.R., putting

Vacuumed
Cleaning tec
(decon), ges
& dust.

1200 OSC Site
Site Upd
of Site S
directs the
decontamination
removal &
front offic
tory.

1230 ERCS con
of Building
OSC Dow
Vat Room
reviewed D
Acids, & N
Dow in 1
Groups w/6
Cyanides
room.

OSC to co
DNREC &
them of

1345 Crew loadins
Demob eqv
PPE, Satchel

1430 Note: Carpe
at 1300 he
broken Do
rot - off.

sday Oct 19, 1995

AT on site,
ing - Physical &
zards. Emergency
areas.

Zone - 0 ppm
ot Zone - 0.09 mg/m³
@0750

in Lab Setup in Process Room
D Acid TEST NEGATIVE
Xon, Equip. Rm, Hot Zone
D CN TEST NEGATIVE
Hot Zone

uring Process Room
surfaces.

EPA + TAT COSTS.
view inventory
s.

g Vats.

POLREP H14,
made w/ SATA
emobe MCP.

ppm - HCN

96 mg/m³ TWA
21 mg/m³ @ 1020
Rm to D.S.A

eg - Decon, Equip. Rm,
Hot Zone.

eg - Decon, Equip.Rm, Hot
no.
uring D.S.A. putting

VACUUMED MATERIAL IN DRUMS,
CLEANING TOOLS AND OTHER EQUIPMENT
(DECON), GENERALLY CLEANING SURFACES
OF DUST.

1200 OSC Staunton contacted
site. Updated by OSC Downie
of Site Status. OSC Staunton
directs that final DECON
decontamination should include
removal of carpet from
front office + back office/labora-
tory.

1230 ERCS continue final Decon
of Building.
OSC Downie inspects building-
Nat Room + Drum Storage Area
reviewed Drum Staging Set-up.
Acids, + Neutral Liquids + Flamm.
Drum in Back Room + Base
Groups w/cyanide + base w/out
Cyanides in middle, polishing
room.

OSC to contact Fire Chief +
DNREC Mohrman to update
them of site status.

1345 Crew loading EQUIPMENT IN TRUCK
Demob equipment back to Richmond.
PPE, Satchels, expendables etc.

1430 Note: Carpet removed + area swept
at 1300 hours. Decon area
broken down + poly staged in
roll-off.

1430 DNREC John Mierman contacted by OSC & updated on site status.

1500 Crew (5) off-site.

Site Status:

1. Roll-off secured & 95% full.
2. Decon Broken Down - showed - (emergency) to remain until T+D completed.
3. Carpets removed from office & office/lab. & floors swept.
4. Decon of Floors in Vat Room completed. Hepa Vac - + removed catwalks & cinderblock. mopped visually contaminated stained areas & re-swept w/ specific pH on floors in stained areas - pH - 5-7 units.
5. Decon of Vats completed. Liners - rinsed & cut off & put in roll-off. The vats were triple rinsed & scraped & water collected in drums. ~~outside of its waste stream group.~~ Outside of vats wet wiped & scraped - abrasive aqueous decon. Vat 8(CN) rinsed w/ sodium Hypochlorite Solution. outside of vat ph - 7-9 units. was up to 14 units prior to decon.

Vat 6 chromic acid - had no liner & ph inside vat remains at 3 units. outside of vat was

5-7 uni electrodes were de-staged in machine.

6. Drums - vats 2 & Transfer No Loss or injuries, reactions

7. Drums staged 5 groups +

8. T+D P Package Samples float sun results o

9. All static on site

10. Security, Starting

1600 off-Site -

in Norman contacted
updated on site

- site.

3:

secured & 95% Full.
broken Down - shower -
) to remain until
detected.

moved from office &
. & floors swept.

Floors in Vat Room
Hepa Vac - + removed
- cinderblock.

sally contaminated
is + re swept w/ specidry.
is in stained areas -
units.

Vats completed.
used + cut up + put in
the vats were triple
scrapped + water collected
~~outside~~ of its waste

p. Outside of vats
- scraped - abrasive
con. Vat 8(CN)
sodium hypochlorite
outside of vat ph -
was up to 14 units
(CN).

romic acid - had no
h inside vat remains
- outside of vat was

5-7 units.

electrodes + other parts from vats
were decontaminated (scrapped + rinsed) +
staged in an empty vat in
Machine shop.

6. Drums - liquid transfer of
vats \approx 55 drums generated.
Transfer operations successful.
No loss of wastes, no spills, no
injuries, no exposures, + no
reactions (CN gas clouds)

7. Drums segregated by +
staged Separated incompatible
groups + all Drums on pallets.

8. T+D Dept working on disposal
package.

Samples of suspected Cd +
Floor sweepings in lab, expected
results on Monday.

9. All State + Local officials updated
on site status.

10. Security back on 24-hour
starting tomorrow.

1600 off-site -

FRIDAY OCTOBER 20, 1995

- 0720 ARRIVED ONSITE. ERCS-3, SATA-2
0800 EPA & TAT COSTS. UPDATED BY TAT.
FINAL CLEANUP INSPECTION
PREPARE EQUIPMENT FOR DEMOB.
PHONES TURNED OFF UPON ARRIVAL
PREP. MOBILE COMMAND POST FOR DEMOB
ORGANIZE FILES.
0930 HERTZ EQUIPMENT RENTAL ON SITE
TO DEMOBÉ AIR COMPRESSOR, PRESSURE
WASHER, 30Kw generator, FORKLIFT
NOTE: 5Kw generator demobed at 08:15
1015 Godwin Pumps on site for
DD Pump.
1130 Final Clean-up + Lock +
Secure Site
1200 ERCS off site.
Final Clean-up of command
Post. & check running status
of MCP.
1350 TAT off site.

AC Thursday Dec. 7, 1985

0845 Contact OSE to transfer Disposal Information.

Site EPA ID # DEPC00001289

Contact Tracy Hembury at 302 739 3689

DNREC to supply additional info.

Clean Harbors of Connecticut

LTD000604488 aqueous waste

Chem waste Model City

NYD049836679 - Landfill waste

Michigan Disposal - Treatment Roll-off
MID000724831

Sewer Landfill/Wayne Disposal

MID048090633 Belleville MI

Transporters

Clean Harbors Env. Services Inc.

MAD039322250

Frechell Cartage Inc. NJ,
Waste Codes:

Cadmium Fluoborate (D002, D006)

Haz Waste Solid NOS (D007)

Haz waste Liquid NOS (D006, F007)

Waste Corrosive liquid basic inorg (D002, D003, F009)

Waste Liquid N.O.S. (D006, D008, F007)

~~Waste~~ Corrosive Solid NOS (F008)

Waste Flam. Liquid (D001)

Waste Corr. Liquid Oxidizing (F007-D001, D002, D004, D006,)^{D007}

Waste Corr. L.q. Oxid. NOS (D002, D001, D006, D007, D008)

Waste Corr. Lig. Acid NOS (D002, D007, F007)

Waste Corr. Lig. NOS (D002, D003, F007)

1400 Contacted DNREC & Supplied Information
of transporters.

0730 TAT departs
1030 on-site; Se
ERCS on site
& Ditty, K
Prep Samp
Clean Hatch
of Drum #
1130 obtain Saa
for delivery
1200 off-site to
CA Profiles
1300 Depart Bla
1400 Return to
& file pi
1730 Depart e

EC & Supplied Information

Friday Dec 8, 1995

0730 TAT departs office for site

1030 on-site; Security on-site,

ERCS on site & 2-TATS

Ex. 4 CBI

+ **Ex. 4 CBI** RM Moulds.

Prep Samples for delivery to
Clean Harbors. Obtain Sample
of Drum # 105 - Cadmium Fibrocate.

1130 obtain Sample of Debris in Roll-off
for delivery to MDI.

1200 off-site to review & complete
CA Profiles.

1300 Depart Blacks.

1650 Return to office - unload
& file papers

1730 Depart office

[Handwritten signature]

Dec 20, 1995

Wed Dec 20, 1995

1030 ERCS & TAT on site to prep for Disposal tomorrow.

1100 Crew arrives.

Safety meeting held -
2 new Techs -

Chemical & physical Hazards,

1130 Set Samples & Labels
to Draw

1230 Prep Roll-off for Disposal

1330 Prep Drawers w/ Facility
~~#~~ Numbers & Labels1400 Contact A-1 Plating w/
Police Chet. Vicente
will be here tomorrow
up to 1500 hours.will leave keys w/ Police
Chet. TSC Chet updated
on activities.Herte Delivers Forklift
ERCS mob w/ Truck &
POV.

Weather Cold & Snow Flurries.

1600 Set up carpet & Place in Roll-off
Signed Manifests & Hazardous
Labels issued via Fed-Ex.
Secure Site.

1700 All personnel off-site.

1700 ERCS & TAT

Clean Harb

Security on

Weather -

Note: Multi:

on same sh

to be on

Clean Harb

0800.

1130 1st Clean I

Truck #6.

w/ Manifests

Roll-off Li

95005

Freehold Co

Roll-off #5.

Clean Harbors

1140 Late Notes:

Brought - No

ERCS used

Labels pro-

facility.

4 Oxidizers

thru Mr. T

Mr. Neema

on-site a

to retrieve

parts taken

0230 Truck #2

Manifests

Truck # 97

Dec 20, 1995
on site to
posal tomorrow
in
eting Held -
S -
Physical Hazards,
ES & return
all for Disposal
w/ Profile
S. & Labels
Plating w/
Vicunha
tomorrow
1000 S.
keys w/ Police
Chart updated
CS
cr's Forklift
11 Truck &
dt Snow Flurries.
Place in roll-off.
sts & Hazards
in Fed - ch.
off-Site.

Thursday Dec 21, 1995

0700 ERIS + TAT on Site.
Clean Harbors Truck #1 on site
Security on Site.
Weather - clear and cold.
Note: Manifests have acids & CN
on same sheets. were supposed
to be on separate trucks.
Clean Harbors will be open at
0800.

1130 1st Clean Harbors Truck Loaded
Truck # 626 Cab # 929 -
w/ Manifests # 95003 & # 95004
Roll-off Loaded Manifest #
95005
Freehold cartage bed # 339 Cab # 507
Roll off # 52265
Clean Harbors Truck #2 being Loaded.
1140 Site Notes: Not enough DOT Labels
Brought. - None brought by Clean Harbors
ERIS used emergency supply. Extra
Labels provided by local Depot
facility. Gerald in shipping
4 oxidizer 407 class q, contacted
thru Mr. Porino of Porino Plating.
Mr. Neuman of A-1 plating
on-site at 1000 - 1030 hours
to retrieve car parts. Many
parts taken & many were missing.

1230 Truck #2 Loaded
Manifests # 95001 + 95002
Truck # 771(66) Manifest # 6104